

Notice of Allowability

Application No.

10/050,273

Examiner

Belix M. Ortiz

Applicant(s)

JAYARAM ET AL.

Art Unit

2164

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/08/2005.
2. ☒ The allowed claim(s) is/are 1, 2 and 4-14.
3. ☒ The drawings filed on 05 April 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

C. Rones
CHARLES RONES
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. The following is an Examiner's statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose, make obvious, or otherwise suggest the structure of the applicant's prediction program, prediction apparatus, and prediction method together with the other limitations of the independent claims.

The dependent claims being further limiting and definite are also allowable. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Authorization for this examiner's amendment was given in an interview with Victor C. Moreno on June 7, 2005.

AMENDMENT TO THE CLAIMS:

Claims 1, and 11-13 have been amended. Claim 3 was cancelled; and claims 1-2 and 4-14 remain pending in the application.

WHAT IS CLAIMED IS:

1. (Currently Amended) A computer system for migrating a source database wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database, to a target database comprising:

- a set of mapping instructions;
- a target schema specification; and
- a generically coded database conversion engine wherein the database

conversion engine is coded to perform conversions independent of the specific type of source database and the specific type of target database associated with a conversion; wherein:

~~- wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database;~~

- data in the source database is sent to the database conversion engine;
- the target schema specification defines the target database;
- the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database;
- the database conversion engine receives the source data, the set of mapping instructions and the target schema specification;
- the database conversion engine parses the set of mapping instructions and the target schema specification;
- the database conversion engine performs the set of mapping instructions on the source data;
- the database conversion engine uploads a resulting set of data into the target database in accordance with the target schema specification; and
- the database conversion engine validates the source data and the resulting set of data in accordance with the target schema specification.

11. (Currently Amended) A computer system for migrating a source database wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database, to a target database comprising:

- a set of mapping instructions;

- a source extract format specification;

- a target schema specification; and

- a generically coded database conversion engine wherein the database

conversion engine is coded to perform conversions independent of the specific type of source database and the specific type of target database associated with a conversion;

wherein:

- ~~-wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database;~~

- a basic business object is derived by analyzing information to be transferred from the source database to the target database;

- the source extract format specification and the target schema specification are configured according to the basic business object;

- data in the source database is sent to the database conversion engine;

- the target schema specification defines the target database;

- the set of mapping instructions defines at least one translation instruction for the translation of the source data from the source database to the target database;

- data in the source database is formatted according to the source extract format specification to produce a file with repetitive instances of the basic business object (formatted source data);

- the database conversion engine receives the source data, the set of mapping instructions and the target schema specification;

- the database conversion engine parses the set of mapping instructions and the target schema specification;

- the database conversion engine performs the set of mapping instructions on the source data;

- the database conversion engine uploads a resulting set of data into the target database in accordance with the target schema specification; and

- the database conversion engine validates the source data and the resulting set of data in accordance with the target schema specification.

12. (Currently Amended) A computer system for migrating a source database wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database, to a target database comprising:

- a mapping specification;

- a data filter;

- a source extract format specification;

- a target schema specification; and

-a generically coded database conversion engine wherein the database conversion engine is coded to perform conversions independent of the specific type of source database and the specific type of target database associated with a conversion;
wherein:

~~-wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database;~~

- the database conversion engine receives the formatted source data;

-the database conversion engine converts the formatted source data according to the mapping specification (converted data);

-the database conversion engine formats the converted data in accordance with the target schema specification (target data);

-the database conversion engine uploads the target data into the target database;

and

- the database conversion engine validates the source data and the resulting set of data in accordance with the target schema specification.

13. (Currently Amended) A computerized method for migrating a source database wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database, to a target database comprising:

-a delimited source file associated with the source database;

- a source extract format specification;

- a set of mapping instructions;

- an industry-specific mapping instructions template;
- a mapping language;
- a target schema specification; and
- a generically coded database conversion engine wherein the database conversion engine is coded to perform conversions independent of the specific type of source database and the specific type of target database associated with a conversion, ~~wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database;~~
and further comprising the steps of:
 - formatting the delimited source file according to the source extract format specification (formatted source data);
 - defining a set of requirements for the target database and encoding the requirements in the target schema specification;
 - developing a set of mapping instructions, that define at least one translation instruction for the translation of the formatted source data from the source database to the target database, using the industry-specific mapping instruction template and further configuring the mapping instructions with commands developed with the mapping language via a graphical user interface;
 - sending the formatted source data, the set of mapping instructions and the target schema specification to the database conversion engine;

- validating the formatted source data through a set of computer executable instructions encoded in the database conversion engine;
- parsing the set of mapping instructions;
- concurrently performing the set of mapping instructions on the formatted source data to produce a resulting set of data;
- validating the resulting set of data by comparing it to the target schema specification through a set of computer executable instructions encoded in the database conversion engine; and
- uploading the resulting set of data into the target database.

Reasons for Allowance

2. Claims 1-2 and 4-14 are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter: the prior arts of records, neither anticipates nor renders obvious the following limitations as claimed:

As to claims 1 and 11-13, the prior art of records fail to anticipate or suggest a computer system for migrating a source database wherein a specific type of source database is selected from a relational database, an object-oriented database, or a network database, to a target database comprising:

- a generically coded database conversion engine wherein the database

conversion engine is coded to perform conversions independent having a specific type of source database and the specific type of target database associated with a conversion;

wherein:

- the database conversion engine parses the set of mapping instructions and the target schema specification;
- the database conversion engine performs the set of mapping instructions on the source data;
- the database conversion engine uploads a resulting set of data into the target database in accordance with the target schema specification; and
- the database conversion engine validates the source data and the resulting set of data in accordance with the target schema specification, together with the other limitations of the dependent claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number is (571)-272-4081. The examiner can normally be reached on Monday-Friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571)-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bmo

June 7, 2005



CHARLES RONES
PRIMARY EXAMINER